Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

1-143. (canceled)

144. (currently amended) A demulsifier composition to prevent or resolve downhole emulsions in aqueous solutions, said demulsifier composition consisting essentially of:

a demulsifying amount of one or more salts of alkylaryl sulfonic acid effective to perform a function selected from the group consisting of demulsifying an emulsion in an aqueous solution and preventing formation of an emulsion in an aqueous solution;

a first solubilizing quantity of a non-ionic surfactant effective to solubilize said demulsifier in said aqueous solution, said non-ionic surfactant ~~comprising~~ consisting essentially of an alkoxylated compound having the following general formula:

$$R^6O(CH_2CHR^7O)_xR^8$$

wherein

R^6 is an alkyl group having from about 8 to about 16 carbon atoms;

R^7 independently is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

R^8 is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

x is from about 2 to about 20; and

a second solubilizing quantity of a mutual organic solvent selected from the group consisting of water soluble glycol ethers, water soluble amides, water soluble ketones, and water soluble alcohols selected from the group consisting of methanol, ethanol, 1-propanol, and 2-propanol, said mutual organic solvent being effective to solubilize said demulsifier and said non-ionic surfactant to produce said demulsifier composition.

145. (previously presented) The composition of claim 144 wherein said aqueous solution is a brine.

146. (canceled)

147. (previously presented) The composition of claim 144 wherein

said demulsifying amount of said demulsifier is from about 1 wt.% to about 40 wt.%;

said first solubilizing quantity of said non-ionic surfactant is from about 1 wt.% to about 10 wt.%; and

said second solubilizing quantity of said mutual organic solvent is from about 60 to about 98 wt.%.

148. (previously presented) The composition of claim 144 wherein

said demulsifying amount of said demulsifier is from about 2 wt.% to about 10 wt.%; and

said second solubilizing quantity of said mutual organic solvent is from about 85 to about 95 wt.%.

149. (previously presented) The composition of claim 145 wherein

said demulsifying amount of said demulsifier is from about 1 wt.% to about 40 wt.%;

said first solubilizing quantity of said non-ionic surfactant is from about 1 wt.% to about 10 wt.%; and

said second solubilizing quantity of said mutual organic solvent is from about 60 to about 98 wt.%.

150. (previously presented) The composition of claim 145 wherein

said demulsifying amount of said demulsifier is from about 2 wt.% to about 10 wt.%; and

said second solubilizing quantity of said mutual organic solvent is from about 85 to about 95 wt.%.

151. (canceled).

152. (canceled).

153. (previously presented) The demulsifier composition of claim 144 wherein said mutual organic solvent is selected from the group consisting of water soluble propylene glycol ethers, N,N-dimethylformamide, N,N-dimethylacetamide, 1-methyl-2-pyrrolidinone, acetone, methanol, ethanol, 1-propanol and 2-propanol.

154. (previously presented) A demulsifier composition to prevent or resolve downhole emulsions in aqueous solutions, said demulsifier composition consisting essentially of:

a demulsifying amount of an amine salt of alkylaryl sulfonic acid effective to perform a function selected from the group consisting of demulsifying an emulsion in an aqueous solution and preventing formation of an emulsion in an aqueous solution;

a first solubilizing quantity of a non-ionic surfactant effective to solubilize said demulsifier in said aqueous solution, said non-ionic surfactant consisting essentially of an alkoxylated compound having the following general formula:

$$R^6O(CH_2CHR^7O)_xR^8$$

wherein

R^6 is an alkyl group having from about 8 to about 16 carbon atoms;

R^7 independently is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

R^8 is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

x is from about 2 to about 20; and

a second solubilizing quantity of a mutual organic solvent selected from the group consisting of water soluble glycol ethers, water soluble amides, water soluble ketones, and water soluble alcohols selected from the group consisting of methanol, ethanol, 1-propanol, and 2-propanol, said mutual organic solvent being effective to solubilize said demulsifier and said non-ionic surfactant to produce said demulsifier composition.

155. (canceled).

156. (previously presented) A demulsifier composition consisting essentially of:

a demulsifying amount of one or more salts of alkaryl sulfonic acid effective to perform a function selected from the group consisting of demulsifying an emulsion in an aqueous solution and preventing formation of an emulsion in an aqueous solution;

a first solubilizing quantity of an alkoxylated compound effective to solubilize said demulsifier in said aqueous solution, said alkoxylated compound having the following general formula:

$$R^6O(CH_2CHR^7O)_xR^8$$

wherein

R^6 is an alkyl group having from about 8 to about 16 carbon atoms;

R^7 independently is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

R^8 is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

x is from about 2 to about 20; and

a second solubilizing quantity of one or more water-soluble alkanol ethers having the formula

$$R^{10}O(CH_2CHR^{11}O)_zR^{12}$$

wherein

R^{10}, R^{11} and R^{12} independently are selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms; and

z is from about 1 to about 22.

157. (previously presented) The composition of claim 156 wherein

R^{10} and R^{11} are hydrogen;

R^{12} is selected from the group consisting of methyl, ethyl, propyl, iso-propyl, and butyl groups;

z is from about 1 to about 8.

158. (previously presented) The composition of claim 156 wherein said one or more water-soluble alkanol ethers is selected from the group consisting of ethylene glycol monobutyl ether (EGMBE) and ethylene glycol monomethyl ether (EGMME).

159. (previously presented) The composition of claim 156 wherein said demulsifier is a 2-propanamine salt of dodecyl benzene sulfonic acid.

160. (previously presented) The composition of claim 156 wherein said alkoxylated compound has a hydrophilic-lipophilic balance (HLB) value of from about 5 to about 20.

161. (previously presented) The composition of claim 156 wherein said alkoxylated compound has a HLB value of about 8 to about 15.

162. (previously presented) The composition of claim 156 wherein

said demulsifying amount of said demulsifier is from about 1 wt.% to about 40 wt.%;

said first solubilizing quantity of said alkoxylated compound is from about 1 wt.% to about 10 wt.%; and

said second solubilizing quantity of said one or more water-soluble alkanol ethers is from about 60 to about 98 wt.%.

163. (previously presented) The composition of claim 156 wherein

said demulsifying amount of said demulsifier is from about 2 wt.% to about 10 wt.%; and

said second solubilizing quantity of said one or more water-soluble alkanol ethers is from about 85 to about 95 wt.%.

164. (previously presented) The composition of claim 157 wherein

said demulsifying amount of said demulsifier is from about 1 wt.% to about 40 wt.%;

said first solubilizing quantity of said alkoxylated compound is from about 1 wt.% to about 10 wt.%; and

said second solubilizing quantity of said one or more water-soluble alkanol ethers is from about 60 to about 98 wt.%.

165. (previously presented) The composition of claim 157 wherein

said demulsifying amount of said demulsifier is from about 2 wt.% to about 10 wt.%; and

said second solubilizing quantity of said one or more water-soluble alkanol ethers is from about 85 wt.% to about 95 wt.%.

166. (previously presented) The composition of claim 158 wherein

said demulsifying amount of said demulsifier is from about 1 wt.% to about 40 wt.%;

said first solubilizing quantity of said alkoxylated compound is from about 1 wt.% to about 10 wt.%; and

said second solubilizing quantity of said one or more water-soluble alkanol ethers is from about 60 to about 98 wt.%.

167. (previously presented) The composition of claim 158 wherein

said demulsifying amount of said demulsifier is from about 2 wt.% to about 10 wt.%; and

said second solubilizing quantity of said one or more water-soluble alkanol ethers is from about 85 to about 95 wt.%.

168. (previously presented) A demulsifier composition to prevent or resolve downhole emulsions in aqueous solutions, said demulsifier composition consisting essentially of:

a demulsifying amount of a 2-propanamine salt of dodecyl benzene sulfonic acid effective to perform a function selected from the group consisting of demulsifying an emulsion in an aqueous solution and preventing formation of an emulsion in an aqueous solution;

a first solubilizing quantity of an alcohol ethoxylate having the following general formula

$$R^6O(CH_2CHR^7O)_xR^8$$

wherein

R^6 is an alkyl group having from about 8 to about 16 carbon atoms;

R^7 independently is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

R^8 is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

x is from about 2 to about 20; and

a second solubilizing quantity of a mutual organic solvent selected from the group consisting of ethylene glycol monobutyl ether (EGMBE) and ethylene glycol monomethyl ether (EGMME).

169. (previously presented) The composition of claim 168 wherein

R^6 is a linear alkyl group having from about 14 to about 15 carbon atoms; and

x is from about 5 to about 10.

170. (previously presented) The composition of claim 168 wherein said aqueous solution is a brine.

171. (previously presented) The composition of claim 169 wherein said aqueous solution is a brine.

172. (previously presented) The composition of claim 168 wherein

said demulsifying amount of said 2-propanamine salt of dodecyl benzene sulfonic acid is from about 1 wt.% to about 40 wt.%;

said first solubilizing quantity of said alcohol ethoxylate is from about 1 wt.% to about 10 wt.%; and

said second solubilizing quantity of said mutual organic solvent is from about 60 wt.% to about 98 wt.%.

173. (previously presented) The composition of claim 168 wherein

said demulsifying amount of said 2-propanamine salt of dodecyl benzene sulfonic acid is from about 2 wt.% to about 10 wt.%; and

said second solubilizing quantity of said mutual organic solvent is from about 85 wt.% to about 95 wt.%.

174. (previously presented) The composition of claim 169 wherein

said demulsifying amount of said 2-propanamine salt of dodecyl benzene sulfonic acid is from about 1 wt.% to about 40 wt.%;

said first solubilizing quantity of said alcohol ethoxylate is from about 1 wt.% to about 10 wt.%; and

said second solubilizing quantity of said mutual organic solvent is from about 60 wt.% to about 98 wt.%.

175. (previously presented) The composition of claim 169 wherein

said demulsifying amount of said 2-propanamine salt of dodecyl benzene sulfonic acid is from about 2 wt.% to about 10 wt.%; and

said second solubilizing quantity of said mutual organic solvent is from about 85 wt.% to about 95 wt.%.

176. (previously presented) A demulsifier composition to prevent or resolve downhole emulsions in aqueous solutions, said demulsifier composition consisting essentially of:

a demulsifying amount of one or more salts of alkylaryl sulfonic acid, effective to perform a function selected from the group consisting of demulsifying an emulsion in an aqueous solution and preventing formation of an emulsion in an aqueous solution;

a first solubilizing quantity of a non-ionic surfactant selected from the group consisting of polyoxyalcohols, tall oil ethoxyethylate having from about 6 to about 15 moles of ethylene oxide, ethoxylated nonylphenols, and phosphated fatty alcohol ethoxylates having from about 2 to about 10 moles of ethoxylation; and

a second solubilizing quantity of a mutual organic solvent selected from the group consisting of water soluble glycol ethers, water soluble amides, water soluble ketones, and water soluble alcohols selected from the group consisting of methanol, ethanol, 1-propanol, and 2-propanol, said mutual organic solvent being effective to solubilize said demulsifier and said non-ionic surfactant to produce said demulsifier composition.

177. (previously presented) A brine comprising:

said brine, selected from the group consisting of a drilling fluid, a workover fluid, and a completion fluid, said brine comprising:

a demulsifying amount of one or more salts of alkylaryl sulfonic acid effective to perform a function selected from the group consisting of demulsifying an emulsion in said aqueous solution and preventing formation of an emulsion in said aqueous solution;

a first solubilizing quantity of a non-ionic surfactant effective to solubilize said demulsifier in said aqueous solution;

a second solubilizing quantity of a mutual organic solvent selected from the group consisting of water soluble glycol ethers, water soluble amides, water soluble ketones, and water soluble alcohols selected from the group consisting of methanol, ethanol, 1-propanol, and 2-propanol, said mutual organic solvent being

effective to solubilize said demulsifier and said non-ionic surfactant to produce said brine.

178. (previously presented) The brine of claim 177 wherein said non-ionic surfactant comprises an alkoxylated compound having the following general formula:

$$R^6O(CH_2CHR^7O)_xR^8$$

wherein

R^6 is an alkyl group having from about 8 to about 16 carbon atoms;

R^7 independently is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

R^8 is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

x is from about 2 to about 20.

179. (previously presented) The brine of claim 177 wherein said non-ionic surfactant has an HLB of from about 8 to about 15.

180. (previously presented) The brine of claim 178 wherein said non-ionic surfactant has an HLB of from about 8 to about 15.

181. (previously presented) The brine of claim 177 wherein said mutual organic solvent is selected from the group consisting of water soluble propylene glycol ethers, N,N-dimethylformamide, N,N-dimethylacetamide, 1-methyl-2-pyrrolidinone, acetone, methanol, ethanol, 1-propanol and 2-propanol.

182. (previously presented) The brine of claim 178 wherein said mutual organic solvent is selected from the group consisting of water soluble propylene glycol ethers, N,N-

dimethylformamide, N,N-dimethylacetamide, 1-methyl-2-pyrrolidinone, acetone, methanol, ethanol, 1-propanol and 2-propanol.

183. (previously presented) The brine of claim 179 wherein said mutual organic solvent is selected from the group consisting of water soluble propylene glycol ethers, N,N-dimethylformamide, N,N-dimethylacetamide, 1-methyl-2-pyrrolidinone, acetone, methanol, ethanol, 1-propanol and 2-propanol.

184. (previously presented) The brine of claim 180 wherein said mutual organic solvent is selected from the group consisting of water soluble propylene glycol ethers, N,N-dimethylformamide, N,N-dimethylacetamide, 1-methyl-2-pyrrolidinone, acetone, methanol, ethanol, 1-propanol and 2-propanol.

185. (previously presented) The brine of claim 177 wherein said non-ionic surfactant is selected from the group consisting of polyoxyalcohols, tall oil ethoxyethylate having from about 6 to about 15 moles of ethylene oxide, ethoxylated nonylphenols, and phosphated fatty alcohol ethoxylates having from about 2 to about 10 moles of ethoxylation.

186. (canceled).

187. (previously presented) The brine of claim 179 wherein said non-ionic surfactant is selected from the group consisting of polyoxyalcohols, tall oil ethoxyethylate having from about 6 to about 15 moles of ethylene oxide, ethoxylated nonylphenols, and phosphated fatty alcohol ethoxylates having from about 2 to about 10 moles of ethoxylation.

188. (canceled).

189. (previously presented) The brine of claim 181 wherein said non-ionic surfactant is selected from the group consisting of polyoxyalcohols, tall oil ethoxyethylate having from about

6 to about 15 moles of ethylene oxide, ethoxylated nonylphenols, and phosphated fatty alcohol ethoxylates having from about 2 to about 10 moles of ethoxylation.

190. (canceled).

191. (previously presented) The brine of claim 183 wherein said non-ionic surfactant is selected from the group consisting of polyoxyalcohols, tall oil ethoxyethylate having from about 6 to about 15 moles of ethylene oxide, ethoxylated nonylphenols, and phosphated fatty alcohol ethoxylates having from about 2 to about 10 moles of ethoxylation.

192. (canceled).

193. (previously presented) The brine of claim 177 wherein said demulsifier comprises an amine salt of said alkylaryl sulfonic acid.

194. (previously presented) The brine of claim 178 wherein said demulsifier comprises an amine salt of said alkylaryl sulfonic acid.

195. (previously presented) The brine of claim 183 wherein said demulsifier comprises an amine salt of said alkylaryl sulfonic acid.

196. (previously presented) The brine of claim 184 wherein said demulsifier comprises an amine salt of said alkylaryl sulfonic acid.

197. (previously presented) The brine of claim 191 wherein said demulsifier comprises an amine salt of said alkylaryl sulfonic acid.

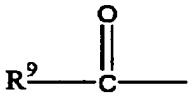
198. (previously presented) The brine of claim 185 wherein said demulsifier comprises an amine salt of said alkylaryl sulfonic acid.

199. (previously presented) The brine of claim 177 wherein said non-ionic surfactant comprises an alkoxylated compound having a hydrophilic-lipophilic balance (HLB) value of from about 5 to about 20 and having the following general formula:

$$R^6O(CH_2CHR^7O)_xR^8$$

wherein

R^6 independently is selected from the group consisting of hydrogen, acyl groups and alkyl groups having from about 1 to about 22 carbon atoms, said acyl groups having the following general formula:



wherein R^9 is an alkyl group having from about 1 to about 24 carbon atoms;

R^7 independently is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

R^8 is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

and

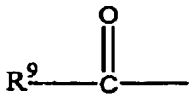
x is from about 1 to about 20.

200. (previously presented) The brine of claim 183 wherein said non-ionic surfactant comprises an alkoxylated compound having a hydrophilic-lipophilic balance (HLB) value of from about 5 to about 20 and having the following general formula:

$$R^6O(CH_2CHR^7O)_xR^8$$

wherein

R^6 independently is selected from the group consisting of hydrogen, acyl groups and alkyl groups having from about 1 to about 22 carbon atoms, said acyl groups having the following general formula:



wherein R^9 is an alkyl group having from about 1 to about 24 carbon atoms;

R^7 independently is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

R^8 is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms; and

x is from about 1 to about 20.

201. (canceled).

202. (previously presented) The brine of claim 177 wherein said mutual organic solvent comprises one or more water soluble alkanol ethers having the formula

$$R^{10}O(CH_2CHR^{11}O)_zR^{12}$$

wherein

R^{10}, R^{11} and R^{12} independently are selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms; and

z is from about 1 to about 22.

203. (previously presented) The brine of claim 178 wherein said mutual organic solvent comprises one or more water soluble alkanol ethers having the formula

$$R^{10}O(CH_2CHR^{11}O)_zR^{12}$$

wherein

R^{10}, R^{11} and R^{12} independently are selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms; and

z is from about 1 to about 22.

204. (previously presented) The brine of claim 185 wherein said mutual organic solvent comprises one or more water soluble alkanol ethers having the formula

$$R^{10}O(CH_2CHR^{11}O)_zR^{12}$$

wherein

R^{10}, R^{11} and R^{12} independently are selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms; and

z is from about 1 to about 22.

205. (canceled).

206. (previously presented) The brine of claim 177 wherein said mutual organic solvent is selected from the group consisting of ethylene glycol monobutyl ether (EGMBE) and ethylene glycol monomethyl ether (EGMME).

207. (previously presented) The brine of claim 179 wherein said mutual organic solvent is selected from the group consisting of ethylene glycol monobutyl ether (EGMBE) and ethylene glycol monomethyl ether (EGMME).

208. (previously presented) The brine of claim 198 wherein said mutual organic solvent is selected from the group consisting of ethylene glycol monobutyl ether (EGMBE) and ethylene glycol monomethyl ether (EGMME).

209-210. (canceled).

211. (previously presented) A demulsifier composition consisting essentially of:

a demulsifying amount of an amine salt of alkylaryl sulfonic acid effective to perform a function selected from the group consisting of demulsifying an emulsion in an aqueous solution and preventing formation of an emulsion in an aqueous solution;

a first solubilizing quantity of a non-ionic surfactant effective to solubilize said demulsifier in said aqueous solution, said non-ionic surfactant consisting essentially of an alkoxylated compound having the following general formula:

$$R^6O(CH_2CHR^7O)_xR^8$$

wherein

R^6 is an alkyl group having from about 8 to about 16 carbon atoms;

R^7 independently is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

R^8 is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

x is from about 2 to about 20; and

a second solubilizing quantity of a mutual organic solvent consisting essentially of one or more water-soluble alkanol ethers having the formula

$$R^{10}O(CH_2CHR^{11}O)_zR^{12}$$

wherein

R^{10}, R^{11} and R^{12} independently are selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms; and

z is from about 1 to about 22.

212. (canceled).

213. (canceled).

214. (previously presented) The composition of claim 176 wherein said aqueous solution is a brine.

215. (previously presented) The composition of claim 176 wherein

said demulsifying amount of said demulsifier is from about 1 wt.% to about 40 wt.%;

said first solubilizing quantity of said non-ionic surfactant is from about 1 wt.% to about 10 wt.%; and

said second solubilizing quantity of said mutual organic solvent is from about 60 to about 98 wt.%.

216. (previously presented) The composition of claim 176 wherein

said demulsifying amount of said demulsifier is from about 2 wt.% to about 10 wt.%; and

said second solubilizing quantity of said mutual organic solvent is from about 85 to about 95 wt.%.

217. (previously presented) The composition of claim 214 wherein

said demulsifying amount of said demulsifier is from about 1 wt.% to about 40 wt.%;

said first solubilizing quantity of said non-ionic surfactant is from about 1 wt.% to about 10 wt.%; and

said second solubilizing quantity of said mutual organic solvent is from about 60 to about 98 wt.%.

218. (previously presented) The composition of claim 214 wherein

said demulsifying amount of said demulsifier is from about 2 wt.% to about 10 wt.%; and

said second solubilizing quantity of said mutual organic solvent is from about 85 to about 95 wt.%.

219. (previously presented) The demulsifier composition of claim 176 wherein said mutual organic solvent is selected from the group consisting of water soluble propylene glycol ethers, N,N-dimethylformamide, N,N-dimethylacetamide, 1-methyl-2-pyrrolidinone, acetone, methanol, ethanol, 1-propanol and 2-propanol.

220. (previously presented) A demulsifier composition to prevent or resolve downhole emulsions in aqueous solutions, said demulsifier composition consisting essentially of:

a demulsifying amount of an amine salt of said alkylaryl sulfonic acid, effective to perform a function selected from the group consisting of demulsifying an emulsion in an aqueous solution and preventing formation of an emulsion in an aqueous solution;

a first solubilizing quantity of a non-ionic surfactant selected from the group consisting of polyoxyalcohols, tall oil ethoxyethylate having from about 6 to about 15 moles of ethylene oxide, ethoxylated nonylphenols, and phosphated fatty alcohol ethoxylates having from about 2 to about 10 moles of ethoxylation; and

a second solubilizing quantity of a mutual organic solvent selected from the group consisting of water soluble glycol ethers, water soluble amides, water soluble ketones, and water soluble alcohols selected from the group consisting of methanol, ethanol, 1-propanol, and 2-propanol, said mutual organic solvent being effective to solubilize said demulsifier and said non-ionic surfactant to produce said demulsifier composition.

221. (previously presented) A demulsifier composition to prevent or resolve downhole emulsions in aqueous solutions, said demulsifier composition consisting essentially of:

a demulsifying amount of an amine salt of said alkylaryl sulfonic acid, effective to perform a function selected from the group consisting of demulsifying an emulsion in an aqueous solution and preventing formation of an emulsion in an aqueous solution;

a first solubilizing quantity of a non-ionic surfactant selected from the group consisting of polyoxyalcohols, tall oil ethoxyethylate having from about 6 to about 15 moles of ethylene oxide, ethoxylated nonylphenols, and phosphated fatty alcohol ethoxylates having from about 2 to about 10 moles of ethoxylation; and

a second solubilizing quantity of a mutual organic solvent selected from the group consisting of water soluble propylene glycol ethers, N,N-dimethylformamide, N,N-dimethylacetamide, 1-methyl-2-pyrrolidinone, acetone, methanol, ethanol, 1-propanol and 2-propanol, said mutual organic solvent being effective to solubilize said demulsifier and said non-ionic surfactant to produce said demulsifier composition.

222. (previously presented) The demulsifier composition of claim 214 wherein said mutual organic solvent is selected from the group consisting of water soluble propylene glycol ethers, N,N-dimethylformamide, N,N-dimethylacetamide, 1-methyl-2-pyrrolidinone, acetone, methanol, ethanol, 1-propanol and 2-propanol.

223. (previously presented) A demulsifier composition to prevent or resolve downhole emulsions in a brine, said demulsifier composition consisting essentially of:

a demulsifying amount of an amine salt of said alkylaryl sulfonic acid, effective to perform a function selected from the group consisting of demulsifying an emulsion in a brine and preventing formation of an emulsion in a brine;

a first solubilizing quantity of a non-ionic surfactant selected from the group consisting of polyoxyalcohols, tall oil ethoxyethylate having from about 6 to about 15 moles of ethylene oxide, ethoxylated nonylphenols, and phosphated fatty alcohol ethoxylates having from about 2 to about 10 moles of ethoxylation; and

a second solubilizing quantity of a mutual organic solvent selected from the group consisting of water soluble glycol ethers, water soluble amides, water soluble ketones, and water soluble alcohols selected from the group consisting of methanol, ethanol, 1-propanol, and 2-propanol, said mutual organic solvent being effective to solubilize said demulsifier and said non-ionic surfactant to produce said demulsifier composition.

224. (previously presented) A demulsifier composition to prevent or resolve downhole emulsions in brines, said demulsifier composition consisting essentially of:

a demulsifying amount of an amine salt of said alkylaryl sulfonic acid, effective to perform a function selected from the group consisting of demulsifying an emulsion in a brine and preventing formation of an emulsion in a brine;

a first solubilizing quantity of a non-ionic surfactant selected from the group consisting of polyoxyalcohols, tall oil ethoxyethylate having from about 6 to about 15 moles of ethylene oxide, ethoxylated nonylphenols, and phosphated fatty alcohol ethoxylates having from about 2 to about 10 moles of ethoxylation; and

a second solubilizing quantity of a mutual organic solvent selected from the group consisting of water soluble propylene glycol ethers, N,N-dimethylformamide, N,N-dimethylacetamide, 1-methyl-2-pyrrolidinone, acetone, methanol, ethanol, 1-propanol and 2-propanol, said mutual organic solvent being effective to solubilize said demulsifier and said non-ionic surfactant to produce said demulsifier composition.

225. (previously presented) The brine of claim 176 wherein said non-ionic surfactant has an HLB of from about 8 to about 15.

226. (previously presented) The brine of claim 214 wherein said non-ionic surfactant has an HLB of from about 8 to about 15.

227. (previously presented) A demulsifier composition to prevent or resolve downhole emulsions in aqueous solutions, said demulsifier composition consisting essentially of:

a demulsifying amount of one or more salts of alkylaryl sulfonic acid, effective to perform a function selected from the group consisting of demulsifying an emulsion in an aqueous solution and preventing formation of an emulsion in an aqueous solution;

a first solubilizing quantity of a non-ionic surfactant selected from the group consisting of polyoxyalcohols, tall oil ethoxyethylate having from about 6 to about 15 moles of ethylene oxide, ethoxylated nonylphenols, and phosphated fatty alcohol ethoxylates having from about 2 to about 10 moles of ethoxylation; and

a second solubilizing quantity of a mutual organic solvent consisting essentially of one or more water soluble alkanol ethers having the formula

$$R^{10}O(CH_2CHR^{11}O)_zR^{12}$$

wherein

R^{10}, R^{11} and R^{12} independently are selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms; and

z is from about 1 to about 22, said mutual organic solvent being effective to solubilize said demulsifier and said non-ionic surfactant to produce said demulsifier composition.

228. (previously presented) A demulsifier composition to prevent or resolve downhole emulsions in brines, said demulsifier composition consisting essentially of:

a demulsifying amount of one or more salts of alkylaryl sulfonic acid, effective to perform a function selected from the group consisting of demulsifying an emulsion in a brine and preventing formation of an emulsion in a brine;

a first solubilizing quantity of a non-ionic surfactant selected from the group consisting of polyoxyalcohols, tall oil ethoxyethylate having from about 6 to about 15 moles of ethylene oxide, ethoxylated nonylphenols, and phosphated fatty alcohol ethoxylates having from about 2 to about 10 moles of ethoxylation; and

a second solubilizing quantity of a mutual organic solvent consisting essentially of one or more water soluble alkanol ethers having the formula

$$R^{10}O(CH_2CHR^{11}O)_zR^{12}$$

wherein

R^{10}, R^{11} and R^{12} independently are selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms; and

z is from about 1 to about 22, said mutual organic solvent being effective to solubilize said demulsifier and said non-ionic surfactant to produce said demulsifier composition.

229. (previously presented) A demulsifier composition to prevent or resolve downhole emulsions in aqueous solutions, said demulsifier composition consisting essentially of:

a demulsifying amount of an amine salt of said alkylaryl sulfonic acid, effective to perform a function selected from the group consisting of demulsifying an emulsion in an aqueous solution and preventing formation of an emulsion in an aqueous solution;

a first solubilizing quantity of a non-ionic surfactant selected from the group consisting of polyoxyalcohols, tall oil ethoxyethylate having from about 6 to about 15 moles of ethylene oxide, ethoxylated nonylphenols, and phosphated fatty alcohol ethoxylates having from about 2 to about 10 moles of ethoxylation; and

a second solubilizing quantity of a mutual organic solvent consisting essentially of one or more water soluble alkanol ethers having the formula

$$R^{10}O(CH_2CHR^{11}O)_zR^{12}$$

wherein

R^{10}, R^{11} and R^{12} independently are selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms; and

z is from about 1 to about 22, said mutual organic solvent being effective to solubilize said demulsifier and said non-ionic surfactant to produce said demulsifier composition.

230. (previously presented) A demulsifier composition to prevent or resolve downhole emulsions in a brine, said demulsifier composition consisting essentially of:

a demulsifying amount of an amine salt of said alkylaryl sulfonic acid, effective to perform a function selected from the group consisting of demulsifying an emulsion in a brine and preventing formation of an emulsion in a brine;

a first solubilizing quantity of a non-ionic surfactant selected from the group consisting of polyoxyalcohols, tall oil ethoxyethylate having from about 6 to about 15 moles of ethylene oxide, ethoxylated nonylphenols, and phosphated fatty alcohol ethoxylates having from about 2 to about 10 moles of ethoxylation; and

a second solubilizing quantity of a mutual organic solvent consisting essentially of one or more water soluble alkanol ethers having the formula

$$R^{10}O(CH_2CHR^{11}O)_zR^{12}$$

wherein

R^{10}, R^{11} and R^{12} independently are selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms; and

z is from about 1 to about 22, said mutual organic solvent being effective to solubilize said demulsifier and said non-ionic surfactant to produce said demulsifier.

231. (previously presented) A demulsifier composition to prevent or resolve downhole emulsions in brines, said demulsifier composition consisting essentially of:

a demulsifying amount of an amine salt of said alkylaryl sulfonic acid, effective to perform a function selected from the group consisting of demulsifying an emulsion in a brine and preventing formation of an emulsion in a brine;

a first solubilizing quantity of a non-ionic surfactant selected from the group consisting of polyoxyalcohols, tall oil ethoxyethylate having from about 6 to about 15 moles of ethylene oxide, ethoxylated nonylphenols, and phosphated fatty alcohol ethoxylates having from about 2 to about 10 moles of ethoxylation; and

a second solubilizing quantity of a mutual organic solvent consisting essentially of one or more water soluble alkanol ethers having the formula

$$R^{10}O(CH_2CHR^{11}O)_zR^{12}$$

wherein

R^{10}, R^{11} and R^{12} independently are selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms; and

z is from about 1 to about 22, said mutual organic solvent being effective to solubilize said demulsifier and said non-ionic surfactant to produce said demulsifier composition.

232. (previously presented) The brine of claim 176 wherein said mutual organic solvent is selected from the group consisting of ethylene glycol monobutyl ether (EGMBE) and ethylene glycol monomethyl ether (EGMME).

233. (previously presented) The brine of claim 214 wherein said mutual organic solvent is selected from the group consisting of ethylene glycol monobutyl ether (EGMBE) and ethylene glycol monomethyl ether (EGMME).

234. (previously presented) The brine of claim 220 wherein said mutual organic solvent is selected from the group consisting of ethylene glycol monobutyl ether (EGMBE) and ethylene glycol monomethyl ether (EGMME).

235. (previously presented) The brine of claim 223 wherein said mutual organic solvent is selected from the group consisting of ethylene glycol monobutyl ether (EGMBE) and ethylene glycol monomethyl ether (EGMME).